

## OpenSUSE cron test

This presentation shows creating a simple shell script. The presentation creates a link from one of the cron directories to automatically run the script periodically.

Hardware/Software in this presentation

Operating System: OpenSUSE Leap 42.2 (M State Moorhead spring 2017 version)

Operating System: Windows 10 Anniversary Update

Preuss

4/25/2017



Home



Trash

The presentation logs into Linux.



Untitled — Kate

File Edit View Projects Bookmarks Sessions Tools Settings Help

Untitled

Documents

- Untitled

The presentation launches the editor "kate".

Line 1, Column 1      INSERT   Soft Tabs: 4 ▾   UTF-8 ▾   Normal ▾

🔍 Search and Replace

testcron.sh — Kate

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testcron.sh

```
#!/bin/bash
# This is a simple test of the cron

# This will gather the date/time of execution.
date >> /home/preuss/Documents/crontest01.txt
# This will gather some other information
ls -l >> /home/preuss/Documents/crontest01.txt
echo "Test section done" >> /home/preuss/Documents/crontest01.txt
```

Line 11, Column 1

INSERT Soft Tabs: 4 UTF-8 Bash

Search and Replace

The presentation creates the shell script as shown. Student must check the requirements of the shell script in the lab requirements.

testcron.sh — Kate

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testcron.sh

#! /bin/bash

bin

testcron.sh

Save File — Kate

Places

- Home
- Network
- Root
- Trash
- 10.0 GiB ...
- 28.0 GiB ...

> Home > bin

testcron.sh

Name: >\_ testcron.sh

Filter:

Automatically select filename extension

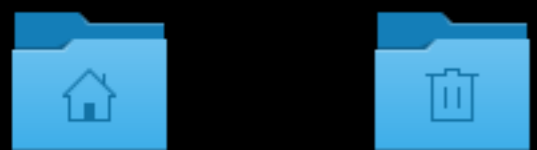
Save Cancel

Line 11, Column 1

INSERT Soft Tabs: 4 UTF-8 Bash

Search and Replace

The presentation saves the shell script in the ~/bin.



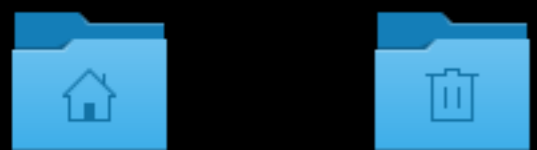
bin : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd ~/bin
preuss@opensuse-s2017:~/bin> chmod 740 testcron.sh
preuss@opensuse-s2017:~/bin> ls -l
total 4
-rwxr----- 1 preuss users 299 Apr 25 13:01 testcron.sh
preuss@opensuse-s2017:~/bin> █
```

The presentation sets the permission on the shell script to be executable.

bin : bash



bin : bash — Konsole

File Edit View Bookmarks Settings Help

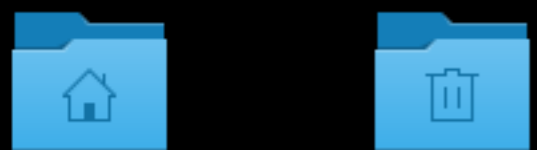
```
preuss@opensuse-s2017:~> cd ~/bin
preuss@opensuse-s2017:~/bin> chmod 740 testcron.sh
preuss@opensuse-s2017:~/bin> ls -l
total 4
-rwxr----- 1 preuss users 299 Apr 25 13:01 testcron.sh
preuss@opensuse-s2017:~/bin> cat ~/Documents/crontest01.txt
Tue Apr 25 13:02:22 CDT 2017
total 4
-rwxr----- 1 preuss users 299 Apr 25 13:01 testcron.sh
Test section done
Tue Apr 25 13:45:01 CDT 2017
total 0
drwxr-xr-x 1 root root 0 Oct 7 2016 bin
drwxr-xr-x 1 root root 46 Dec 5 07:12 inst-sys
Test section done
preuss@opensuse-s2017:~/bin> █
```

The slide shows the shell script "testcron.sh" works correctly.

The command to run "testcron.sh" is

`./testcon.sh`

bin : bash



Home Trash

cron.hourly : bash — Konsole

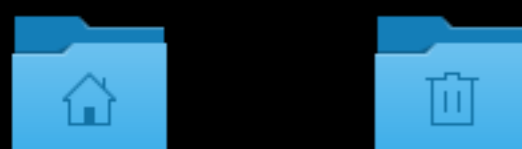
File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:~> cd /etc/cron.hourly/  
preuss@opensuse-s2017:/etc/cron.hourly> ls  
suse.de-snapper  
preuss@opensuse-s2017:/etc/cron.hourly> █
```

The presentation will run the shell script every hour. The presentation changes to the appropriate folder in "/etc" as shown.

cron.hourly : bash





Home Trash

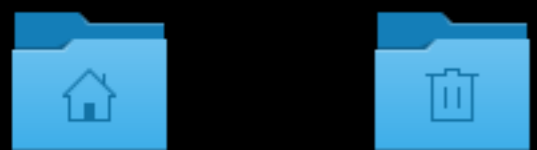
cron.hourly : bash — Konsole

File Edit View Bookmarks Settings Help

```
preuss@opensuse-s2017:/etc/cron.hourly> su
Password:
opensuse-s2017:/etc/cron.hourly # ln -s /home/preuss/bin/testcron.sh testcron.sh
opensuse-s2017:/etc/cron.hourly # ls -l
total 8
-rwxr-xr-x 1 root root 514 Oct 7 2016 suse.de-snapper
lrwxrwxrwx 1 root root 28 Apr 25 14:48 testcron.sh -> /home/preuss/bin/testcron.sh
opensuse-s2017:/etc/cron.hourly #
```

The presentation creates a symbolic link to the shell script as shown. The presentation needs root privileges to accomplish the task shown.

cron.hourly : bash



```
preuss@opensuse-s2017:~/Documents> ls -l
total 4
-rw-r--r-- 1 preuss users 402 Apr 25 14:45 crontest01.txt
preuss@opensuse-s2017:~/Documents> █
```

Every time cron launches the shell script, the data file shown will update.